

COUNTRY USSR (Gorkiy Oblast)

SUBJECT Yava Chemical Plant in Dzerzhinsk

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1. The Yava chemical plant was located directly south of the double-track Dzerzhinsk (56°11'N/43°30'E)--Gorkiy (56°20'N/44°00'E) railway. The administration building in the northwesternmost corner of the plant area was located about 700 meters southeast of the Rulon stop, 11 km east-northeast of the Dzerzhinsk main railroad station. A railroad spur led to the plant from the main line. Several paved roads connected the plant with the Dzerzhinsk-Gorkiy road which was north of, and parallel with, the railroad line, and with the chemical plants, including Plant No 96 Zavod Stroy, which were located west-southwest of the Yava plant.

2. The designation of the plant was Khimicheskiy Zavod Yava (Yava Chemical Plant). In old reports the plant was mentioned under various numerical designations. The latest numerical designation [REDACTED] was No 262. The plant was allegedly established in 1939 and/or 1940, but a section of the plant was composed only of large wooden huts during the war.

3. The fenced-in area of the plant was about 700 x 450 meters. An unidentified number of the wooden huts were replaced by solid buildings in 1943 and 1949. Several other buildings were also constructed at that time. It was not determined whether additional buildings were constructed after late 1949. The plant included several factory buildings, large warehouses, two round tanks, and one sawmill. The plant and Plant No 96 Zavod Stroy, located to the east, were connected by pipe lines. An unidentified number of workshops, in which easily inflammable materials were allegedly processed, were lighted during the night by searchlights outside the buildings. In 1949, factory equipment dismantled in Germany was stored in the plant. *

4. This plant allegedly produced tetraethyl lead to be used in the production of high octane gasoline. The raw material from which the tetraethyl lead was processed was trucked to the plant in strange, pear-shaped tanks from Department No 12 of Plant No 96 several times daily. According to unconfirmed estimates [REDACTED] 20 to 30 tons of this material arrived during a 24-hour period, in late 1949. [REDACTED] the plant also produced a mercaptan compound which was added.

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25X1

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2

as a safety precaution, to the natural gas piped from Saratov (5103411/460021E) to Moscow. Prior to mid-1951, the production of the mercaptan compound was directed and supervised by one Bobishov (fnu), a candidate of chemistry, who also worked at the OKA plant at the same time, and had formerly worked on the production of tetraethyl lead. Information as to the production processes used, the rate of production, other items produced, and the number of employees was not known.

5. The entrances and exits of the warehouses were guarded by MVD troops, who were quartered in separate billets.

25X1 * [] Comment. For layout sketch of the plant, see Attachment. The pipe lines connecting the Yava plant and Plant No 96 Zavod Stroy, observed at a distance of about 3 km, are believed to be only the heating pipe lines from the TETZ power plant. All chemical plants in Pzershinsk allegedly are supplied with steam from the local power plant.

25X1 ** [] Comment. Originally, the plant was used as an experimental installation for the production of tetraethyl lead, which was previously produced by the Higley process. Prior to the end of the war, this plant used no other method of producing products to be used in increasing the octane rating of gasoline. According to reports received in 1949, the tetraethyl lead prepared in Department No 12 of the Zavod Stroy plant was taken to the Yava plant for further processing. Based on the information concerning the installations of the plant and on the

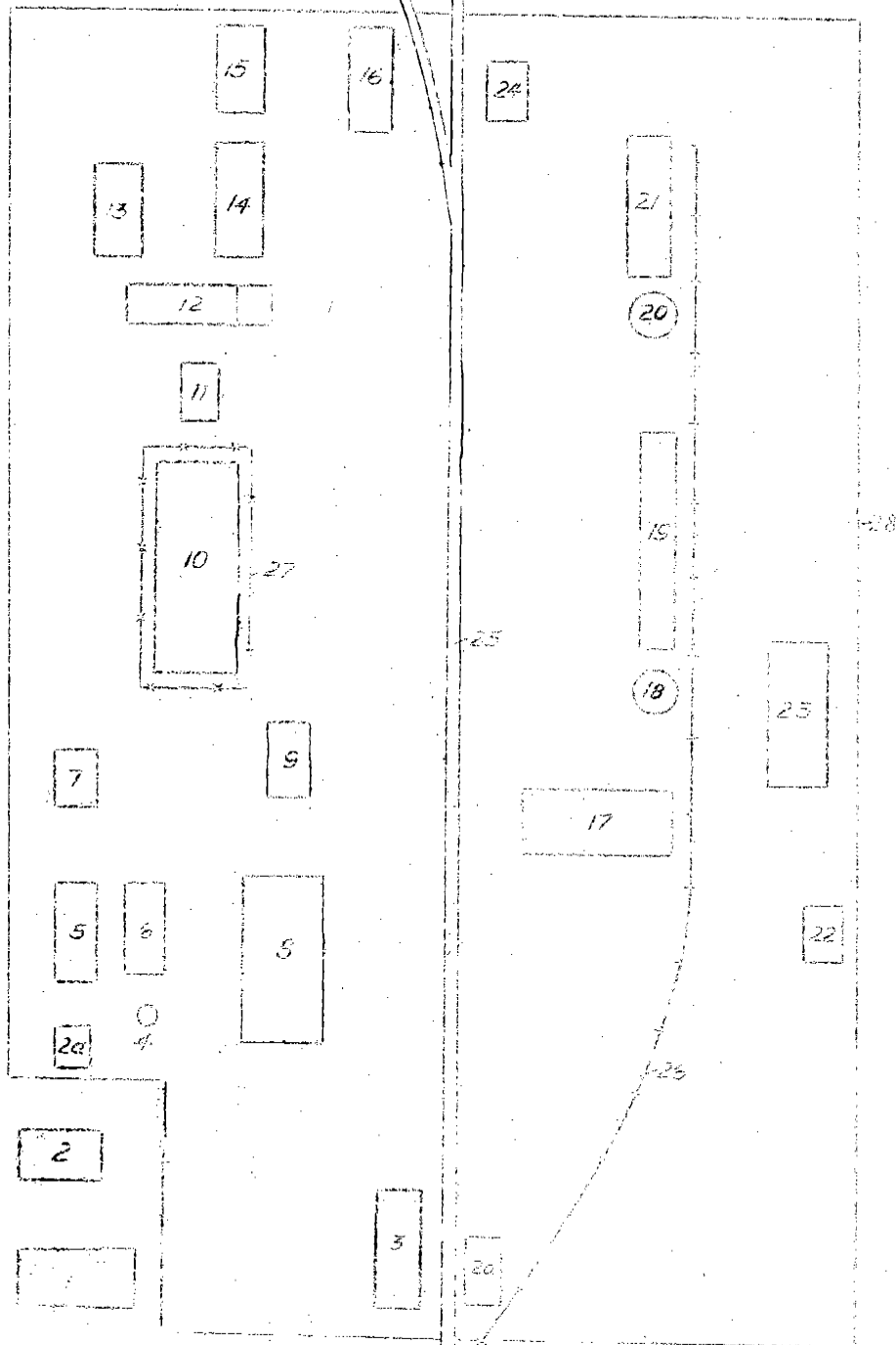
25X1 [] it is not believed that large-scale production of antiknock fuel will be started. However, it is believed the plant will produce a standardized tetraethyl lead finished product. The statements [] concerning the manufacturing processes in Department No 12 of the Zavod Stroy plant, indicate that modern methods, which seem to be based on fairly new American patents, are used in the production of tetraethyl lead. Department 12 of the Zavod Stroy plant produces a molten lead sodium (bleinatrimschmelze) from which tetraethyl lead is obtained by adding ethylene dichloride and an oil. It is believed that the ethylene dichloride is made in this same department.

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Late Chemical Plant at Dzerzhinsk



Scale about 1:1000

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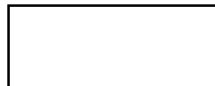
Legend:

1. Administration building.
2. Billets for the guard detail (MVD).
- 2a. Small guardhouse.
3. Workshop.
4. Brick smokestack, about 50 meters high.
5. Factory building.
6. Bathhouse and cloak-rooms.
7. Machine shop.
8. Four-story building containing an apprentices school and billets.
9. Fitting shop.
10. Installation for the production of high octane fuel.
11. Mess hall.
12. Warehouse for material and food.
13. Factory building, newly constructed and now equipped as of late 1949.
14. Building about 100 meters long. Building materials and large quantities of aluminum bars were stored in this building in late 1949.
15. New building, not equipped as of late 1949.
16. Converted old factory building, about 30 meters long. The middle section of this building was five stories high and the rest of the building was two stories high.
17. Factory building, in production. The type of production was not known.
18. Round tank.
19. Guarded loading ramp and warehouse.
20. Round tank, about 10 meters in diameter.
21. Guarded warehouse.
22. Old transformer house, no longer used as of late 1949.
23. Warehouse for barrels.
24. Small sawmill.
25. Paved factory road.

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- 26. Railroad spur to the main line.
- 27. Barbed-wire fence.
- 28. Fence enclosing the plant area.

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